

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re PATENT APPLICATION OF

Adler et al.

Group Art Unit: 1647

Application Serial No. 09/897,427

Examiner: R. Landsman

Filed: July 3, 2001

Title: T1R HETERO-OLIGOMERIC TASTE RECEPTORS

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SUPPLEMENTAL REPLY PURSUANT TO 37 C.F.R. §1.111Hon. Commissioner of Patents  
Washington, D.C. 20231

Sir:

In response to the Office Action mailed on December 23, 2002, kindly amend the above-identified application as follows.

IN THE TITLE

USE OF T1R HETERO-OLIGOMERIC TASTE RECEPTOR to  
SCREEN for COMPOUNDS THAT MODULATE TASTE SIGNALING

IN THE SPECIFICATION

Amend page 1, paragraph 1 of the specification as follows:

This application claims priority to US Provisional Application Serial No. 60/284,547, filed April 19, 2001, and to U.S. Provisional Application Serial No. 60/300,434, entitled "T1R Hetero-Oligomeric Taste Receptors" filed June 26, 2001, the entire contents of which are herein incorporated by reference.

Amend page 69, lines 7 and 12 as follows:

hT1R2 and hT1R3 Function in Combination and Couple to G<sub>u15</sub>

To demonstrate that hT1R2 and hT1R3 function in combination, we transfected the receptors individually and in combination into HEK-G15 cells. We have determined that T1R2/T1R3 activity is not enhanced by incorporation of PDZ1P into the receptors; consequently, unmodified receptors are used in the assays described herein. Transfected cells were loaded with Fluo-4 and their responses to a mixture of sweet taste stimuli (Saccharin, Cyclamate, AcesulfameK, Aspartame, 10mM each) were determined by fluorescence microscopy. Responses of imaged fields of transfected cells are shown in Fig. 4. Responses to the sweetener pool were only

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